

## Equations as Relations

### Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

\_\_\_\_\_ 1. Solve  $4y + 8x = 11$  if the domain is  $\{4\}$ .

- |                                       |  |
|---------------------------------------|--|
| a. The solution set is $\{4, -5.25\}$ | c. The solution set is $\{4, -2.625\}$ |
| b. The solution set is $\{4, -10.5\}$ | d. The solution set is $\{4, -2.625\}$ |

\_\_\_\_\_ 2. Solve  $4y + 1x = 1$  if the domain is  $\{6\}$ .

- |                                       |  |
|---------------------------------------|--|
| a. The solution set is $\{6, -1.25\}$ | c. The solution set is $\{6, -0.625\}$ |
| b. The solution set is $\{6, -2.5\}$  | d. The solution set is $\{6, -5\}$     |

\_\_\_\_\_ 3. Solve  $20y + 6x = 8$  if the domain is  $\{1\}$ .

- |                                     |  |
|-------------------------------------|--|
| a. The solution set is $\{1, 0.1\}$ | c. The solution set is $\{1, 0.05\}$             |
| b. The solution set is $\{1, 0.2\}$ | d. The solution set is $\{1, 0.33333333333333\}$ |

\_\_\_\_\_ 4. Solve  $8y + 10x = 6$  if the domain is  $\{5\}$ .

- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| a. The solution set is $\{5, -5.5\}$ | c. The solution set is $\{5, -2.75\}$ |
| b. The solution set is $\{5, -11\}$  | d. The solution set is $\{5, -4.4\}$  |

\_\_\_\_\_ 5. Solve  $6y + 4x = 10$  if the domain is  $\{4\}$ .

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| a. The solution set is $\{4, -1\}$ | c. The solution set is $\{4, -0.5\}$ |
| b. The solution set is $\{4, -2\}$ | d. The solution set is $\{4, -1.5\}$ |

## Equations as Relations Answer Section

### MULTIPLE CHOICE

- |           |                   |                   |
|-----------|-------------------|-------------------|
| 1. ANS: A | STO: Algebra 18.0 | TOP: AL-0200-0202 |
| 2. ANS: A | STO: Algebra 18.0 | TOP: AL-0200-0202 |
| 3. ANS: A | STO: Algebra 18.0 | TOP: AL-0200-0202 |
| 4. ANS: A | STO: Algebra 18.0 | TOP: AL-0200-0202 |
| 5. ANS: A | STO: Algebra 18.0 | TOP: AL-0200-0202 |

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

ID: A

**MULTIPLE CHOICE**

- |    |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|
| 1. | (A) | (B) | (C) | (D) | (E) |
| 2. | (A) | (B) | (C) | (D) | (E) |
| 3. | (A) | (B) | (C) | (D) | (E) |
| 4. | (A) | (B) | (C) | (D) | (E) |
| 5. | (A) | (B) | (C) | (D) | (E) |